IN THE CLAIMS:

1-26. (Cancelled)

27. (Currently Amended) A computer-implemented method for evaluating the performance of an image processing algorithm, the method comprising:

performing a plurality of image processing functions on an image in response to user input;

recording the plurality of image processing functions, wherein the plurality of image processing functions define an image processing algorithm;

receiving user input specifying a plurality of images on which to <u>execute</u> perform said executing the image processing algorithm;

executing the image processing algorithm on each of the plurality of images;

measuring amounts of time that elapse while executing the image processing algorithm on each of the plurality of images;

determining an average amount of time required to execute the image processing algorithm, based on said measuring the amounts of time that elapse while executing the image processing algorithm on each of the plurality of images; and

displaying information indicating the average amount of time required to execute the image processing algorithm for the plurality of images.

- 28. (Previously Presented) The method of claim 27, further comprising:
 displaying information indicating a rate at which the image processing algorithm is capable of processing images, based on the average amount of time.
- 29. (Previously Presented) The method of claim 27, further comprising:
 displaying one or more of the minimum time required and the maximum time required for executing the image processing algorithm.
 - 30. (Previously Presented) The method of claim 27,



wherein said displaying information comprises displaying time information corresponding to each execution iteration in a structured display.

31. (Previously Presented) The method of claim 30,

wherein the time information comprises a plurality of categories, the method further comprising:

receiving user input to sort the time information by one or more of the plurality of categories; and

sorting the time information based on the user input.

32. (Previously Presented) The method of claim 27,

wherein said displaying information comprises displaying a clock icon which visually indicates the average amount of time required to execute the image processing algorithm.

33. (Previously Presented) The method of claim 27, further comprising:

determining an average amount of time required to execute each of the one or more image processing functions; and

displaying information indicating the average amount of time required to execute each of the one or more image processing functions.

34. (Previously Presented) The method of claim 33,

wherein the plurality of image processing functions comprise two or more image processing functions in a first category;

wherein said determining an average amount of time required to execute each of the one or more image processing functions comprises determining an average amount of time required to execute the two or more image processing functions in the first category.

35. (Previously Presented) The method of claim 27, further comprising:

for each of the plurality of images, measuring an amount of time that elapses during said executing the image processing algorithm for each of a plurality of image processing categories;

determining an average amount of time required to execute each of the plurality of image processing categories; and

displaying information indicating the average amount of time required to execute each of the plurality of image processing categories.

- 36. (Previously Presented) The method of claim 27, further comprising:
 displaying information indicating memory requirements for one or more of the image processing functions.
- 37. (Previously Presented) The method of claim 27, further comprising: programmatically generating a graphical data flow diagram that implements the image processing algorithm.
- 38. (Previously Presented) The method of claim 27, further comprising: programmatically changing the image processing algorithm in order to reduce the execution time of the image processing algorithm.
- 39. (Previously Presented) The method of claim 3727, further comprising: displaying information indicating suggested changes to the image processing algorithm in order to reduce the execution time of the image processing algorithm;

receiving user input accepting the suggested changes; and programmatically making the indicated changes to the image processing algorithm.

40. (Previously Presented) The method of claim 3738, wherein one or more of the image processing functions have associated parameters;

wherein said programmatically changing the image processing algorithm comprises programmatically changing a parameter value associated with an image processing function.

41. (Currently Amended) A memory medium comprising program instructions for evaluating the performance of an image processing algorithm, wherein the program instructions are executable to implement:

performing a plurality of image processing functions on an image in response to user input;

recording the plurality of image processing functions, wherein the plurality of image processing functions define an image processing algorithm;

receiving user input specifying a plurality of images on which to execute perform said executing the image processing algorithm;

executing the image processing algorithm on each of the plurality of images;

measuring amounts of time that elapse while executing the image processing algorithm on each of the plurality of images;

determining an average amount of time required to execute the image processing algorithm, based on said measuring the amounts of time that elapse while executing the image processing algorithm on each of the plurality of images; and

displaying information indicating the average amount of time required to execute the image processing algorithm for the plurality of images.

42. (Previously Presented) The memory medium of claim 41, wherein the program instructions are further executable to implement:

displaying information indicating a rate at which the image processing algorithm is capable of processing images, based on the average amount of time.

43. (Previously Presented) The memory medium of claim 41, wherein the program instructions are further executable to implement:

displaying one or more of the minimum time required and the maximum time required for executing the image processing algorithm.



44. (Previously Presented) The memory medium of claim 41,

wherein said displaying information comprises displaying time information corresponding to each execution iteration in a structured display.

45. (Previously Presented) The memory medium of claim 41,

wherein said displaying information comprises displaying a clock icon which visually indicates the average amount of time required to execute the image processing algorithm.

46. (Previously Presented) The memory medium of claim 41, wherein the program instructions are further executable to implement:

determining an average amount of time required to execute each of the one or more image processing functions; and

displaying information indicating the average amount of time required to execute each of the one or more image processing functions.

47. (Previously Presented) A memory medium comprising program instructions for creating an image processing algorithm, wherein the program instructions are executable to implement:

performing one or more image processing functions on an image in response to user input;

recording the one or more image processing functions, wherein the one or more image processing functions define an image processing algorithm;

executing the image processing algorithm in response to user input;

measuring an execution time that elapses during said executing the image processing algorithm; and

programmatically changing the image processing algorithm in order to reduce the execution time of the image processing algorithm.



48. (Previously Presented) The memory medium of claim 47, wherein the program instructions are further executable to implement:

receiving user input to undo the changes made to the image processing algorithm in said programmatically changing.

- 49. (Previously Presented) The memory medium of claim 47, wherein said programmatically changing the image processing algorithm comprises programmatically changing one or more parameters of at least one image processing function in the image processing algorithm.
- 50. (Previously Presented) The memory medium of claim 47, wherein said programmatically changing the image processing algorithm comprises programmatically changing a number of pixels used in at least one image processing function in the image processing algorithm.
- 51. (Previously Presented) A computer-implemented method for creating an image processing algorithm, comprising:

performing one or more image processing functions on an image in response to user input;

recording the one or more image processing functions, wherein the one or more image processing functions define an image processing algorithm;

executing the image processing algorithm in response to user input;

measuring an execution time that elapses during said executing the image processing algorithm; and

programmatically changing the image processing algorithm in order to reduce the execution time of the image processing algorithm.

52. (Previously Presented) The method of claim 51, further comprising: receiving user input to undo the changes made to the image processing algorithm in said programmatically changing.

- 53. (Previously Presented) The method of claim 51, wherein said programmatically changing the image processing algorithm comprises programmatically changing one or more parameters of at least one image processing function in the image processing algorithm.
- 54. (Previously Presented) The method of claim 51, wherein said programmatically changing the image processing algorithm comprises programmatically changing a number of pixels used in at least one image processing function in the image processing algorithm.
- 55. (Previously Presented) A memory medium comprising program instructions for creating an image processing algorithm, wherein the program instructions are executable to implement:

performing one or more image processing functions on an image in response to user input;

recording the one or more image processing functions, wherein the one or more image processing functions define an image processing algorithm;

executing the image processing algorithm in response to user input;

measuring an execution time that elapses during said executing the image processing algorithm;

programmatically determining one or more suggested changes to the image processing algorithm in order to reduce the execution time of the image processing algorithm; and

displaying information indicating the one or more suggested changes.

56. (Previously Presented) The memory medium of claim 55, wherein the program instructions are further executable to implement:

receiving user input accepting one or more of the suggested changes; and programmatically making the accepted changes to the image processing algorithm.

57. (Previously Presented) The memory medium of claim 55,

wherein one or more of the image processing functions have associated parameters;

wherein said programmatically determining one or more suggested changes comprises programmatically determining at least one change to a parameter value associated with an image processing function.

58. (Previously Presented) The memory medium of claim 55, wherein the program instructions are further executable to implement:

receiving user input specifying desired execution time criteria;

wherein said programmatically determining one or more suggested changes is performed based on said execution time criteria.

59. (Previously Presented) A computer-implemented method for creating an image processing algorithm, comprising:

performing one or more image processing functions on an image in response to user input;

recording the one or more image processing functions, wherein the one or more image processing functions define an image processing algorithm;

executing the image processing algorithm in response to user input;

measuring an execution time that elapses during said executing the image processing algorithm;

displaying information indicating suggested changes to the image processing algorithm in order to reduce the execution time of the image processing algorithm;

receiving user input accepting one or more of the suggested changes; and programmatically making the accepted changes to the image processing algorithm.

